

THE CLAIMS

What is claimed is:

1. An FM transmitter and power supply/charging assembly electrically coupleable with an MP3 player, said assembly comprising a modular docking unit having a main body portion with a docking cavity therein, with retention means for retaining the MP3 player in position in the cavity, wherein the main body portion contains said FM transmitter and power/charging circuitry, with coupling means in the docking cavity for connecting the MP3 player with the FM transmitter and power/charging circuitry, to accommodate FM transmission by said FM transmitter of audio content when played by said MP3 player in the docking cavity of the modular docking unit, and with means for transmitting electrical power through said modular docking unit and said power/charging circuitry therein, for charging of a battery of the MP3 player and/or powering of the MP3 player.
2. The assembly of claim 1, wherein the coupling means in the docking cavity comprises a firewire coupling.
3. The assembly of claim 1, wherein the modular docking unit comprises at least one indicator light indicative of the operational state of the unit.
4. The assembly of claim 3, wherein the indicator light indicates the "ON" or "OFF" state of the unit.
5. The assembly of claim 3, wherein the indicator light indicates the charging status of a battery in an MP3 player docked in the cavity of the modular docking unit.

6. The assembly of claim 1, wherein the modular docking unit comprises a housing formed of polymeric material.

7. The assembly of claim 1, wherein the FM transmitter has a transmission range of up to about 6 feet.

8. The assembly of claim 1, wherein the FM transmitter produces an output frequency audio signal in a range of from about 85 to about 95 Megahertz.

9. The assembly of claim 8, wherein said FM transmitter produces a single output frequency signal in said range.

10. The assembly of claim 8, wherein said FM transmitter produces a variable output frequency signal in said range.

11. The assembly of claim 1, which is constructed and arranged to dock with an iPodTM MP3 player.

12. A sound system including an FM transmitter and power supply/charging assembly as in claim 1, and an MP3 player docked in the docking cavity of the modular docking unit of said assembly.

13. The sound system of claim 12, wherein the MP3 player comprises an iPOD™ MP3 player.

14. The sound system of claim 12, arranged for transmission of music to a table-type FM receiver.

15. The sound system of claim 12, arranged for transmission of music to a vehicular FM receiver for outputting of sound from vehicular audio speakers.

16. The sound system of claim 12, wherein the MP3 player includes a firewire port.

17. The sound system of claim 12, wherein the FM transmitter has a transmission range of up to about 6 feet.

18. The sound system of claim 12, wherein the FM transmitter produces an output frequency audio signal in a range of from about 85 to about 95 Megahertz.

19. The sound system of claim 12, wherein the FM transmitter produces an output variable frequency audio signal in a range of from about 85 to about 95 Megahertz.

20. An MP3 player accessory kit, comprising an FM transmitter and power supply/charging assembly as in claim 1, and at least one power adaptor/charger for said FM transmitter and power supply/charging assembly.

21. The assembly of claim 1, wherein the retention means comprise side rails on said main body portion, bounding said cavity.

22. The assembly of claim 21, wherein the retention means further comprise lateral tabs extending inwardly from said side rails.

23. The assembly of claim 1, wherein the retention means comprise a retractable shelf member mounted on said main body portion.

24. The assembly of claim 23, wherein the retractable shelf member is arranged for manual actuation by a digit of a user.

25. The assembly of claim 23, wherein the retractable shelf member is positioned at a first end of the cavity and said coupling means are positioned in the cavity at a second opposite end of the cavity.

26. The assembly of claim 1, wherein said coupling means comprise a dock connector that is matably engagable with a connector of the MP3 player adapted for coupling with either a firewire port or a USB port.

27. The assembly of claim 1, further comprising a frequency indicator on the main body portion.

28. The assembly of claim 1, further comprising a frequency tuning control on the main body portion.

29. The assembly of claim 1, wherein the main body portion has a generally rectangular shape.

30. The assembly of claim 1, further comprising a headphones jack on the main body portion and coupled to said circuitry.